## **EAST Search History**

| Ref #      | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|------------|------|---|---|---------------------|---------|---------------------|
| S1         | 1    | 10/598963   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>09:58 |
| S2         | 2    | "20050167630"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:00 |
| S3         | 2    | 10/891148   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:02 |
| S4         | 1    | 11/858506   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:03 |
| S5         | 2    | 10/305458   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:05 |
| <b>S</b> 6 | 3    | ("4051545"  <br>"4661883"  <br>"5345119").PN.                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:29 |
| S7         | 94   | (solenoid relay) near<br>driv\$3 near circuit\$3<br>same (zener zenner) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:31 |
| S8         | 525  | 361/152.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:31 |
| S9         | 120  | S8 and (zenner zener)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>10:32 |
| S10        | 94   | (solenoid relay) near<br>driv\$3 near circuit\$3<br>same (zener zenner) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR                  | ON      | 2009/03/19<br>12:13 |

| S11 | 525 | 361/152.ccls.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/19<br>12:13 |
|-----|-----|--|---|----|----|---------------------|
| S12 | 120 | S11 and (zenner<br>zener)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/19<br>12:13 |
| S13 | 113 | S12 not S10  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/19<br>12:13 |
| S14 | 2   | "3397322"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/19<br>13:30 |
| S15 | 878 | (solenoid relay coil<br>induct\$3) same<br>(transistor switch) with<br>resistor near parallel  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/19<br>13:38 |
| S16 | 30  | (solenoid relay coil<br>induct\$3) same<br>(transistor switch)<br>near resistor near<br>parallel   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/19<br>13:38 |
| S17 | 14  | ("1700029"   "3865902"   "4050085"   "4050085"   "4201116"   "4948093"   "5108070"   "5208483"   "5328150"   "5441232"   "5603244"   "5828296"   "5899436"),PN, OR ("6687553").URPN. | US PCPUB;<br>USPAT;<br>USOCR                | OR | ON | 2009/03/19          |
| S18 | 30  | (solenoid relay coil<br>induct\$3) same<br>(transistor switch)<br>near resistor near<br>parallel   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:06 |
| S19 | 263 | (solenoid relay coil<br>induct\$3) same<br>(transistor switch)<br>near3 resistor near<br>parallel  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:06 |

| S20 | 1    | (solenoid relay coil<br>induct\$3) same<br>(transistor switch) with<br>resistor near parallel<br>and (solenoid relay<br>coil induct\$3) near<br>(zener)                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:08 |
|-----|------|--|---|----|----|---------------------|
| S21 | 14   | (solenoid relay coil<br>induct\$3) same<br>(transistor switch)<br>same resistor same<br>parallel and (solenoid<br>relay coil induct\$3)<br>near (zener)                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:09 |
| S22 | 3445 | (solenoid relay coil<br>induct\$3) same<br>(resistor resistance)<br>with parallel with<br>transistor   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:17 |
| S23 | 15   | (solenoid relay coil<br>induct\$3) same<br>(resistor resistance)<br>with parallel with<br>transistor and<br>(solenoid relay coil<br>induct\$3) near parallel<br>near diode   | US PCPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:18 |
| S24 | 997  | (solenoid relay coil induct\$3) same (resistor resistance) with parallel with transistor and (solenoid relay coil induct\$3) with parallel with diode                        | US-PCPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>11:22 |
| S25 | 319  | (solenoid relay coil<br>induct\$3) same<br>(resistor resistance)<br>with parallel with<br>transistor and<br>(solenoid relay coil<br>induct\$3) near3<br>parallel near3 diode | US-PCPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23          |
| S26 | 56   | "4376263"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:46 |

| S27  | 2  | 09/884189  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>12:51 |
|------|----|--|---|----|----|---------------------|
| S28  | 0  | ("6687553").URPN.  | USPAT                                       | OR | ON | 2009/03/23<br>12:51 |
| \$29 | 14 | ("1700029"   "3585902"   "4050085"   "4050085"   "4065096"   "4201116"   "4948093"   "5108070"   "5208483"   "5328150"   "5441232"   "5603244"   "56928296"   75899436"), PN. OR ("6687553").URPN. | US PCPUB;<br>USPAT;<br>USOCR                | OR | ON | 2009/03/23<br>12:52 |
| S30  | 3  | (4661883 5345119 <br>4051545).pn.  | US-PCPUB;<br>USPAT; EPO;<br>JPO;<br>IBM_TDB | OR | ON | 2009/03/23<br>13:15 |
| S31  | 3  | ("4032823"  <br>"4274122").PN. OR<br>("4661883").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON | 2009/03/23<br>19:12 |

3/23/2009 7;39:47 PM C:\ Documents and Settings\ tmai4\ My Documents\ EAST\ Workspaces\ 10598963.wsp